

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-47 and add new claims 48-69 as shown below. Applicant respectfully reserves the right to prosecute any canceled claims in a continuing or future application.

1 - 47. (Canceled).

48. (New) A method for creating a proxy object capable of communication with an external entity, comprising:

specifying a proxy object definition for the proxy object, wherein the proxy object definition specifies the properties of the proxy object through the use of an extensible source code annotation system and defines a first function for communicating with the external entity;

specifying at least one implementation class for the proxy object definition, wherein the at least one implementation class does not implement the first function and includes functionality to support one of: proxy object design, software compilation and software execution; and compiling the proxy object definition and/or the at least one implementation class, comprising:

automatically recognizing information supplied in annotations; and

using the recognized information supplied in annotations to extend proxies.

49. (New) The method of Claim 48, wherein:

the extensible source code annotation system is special JavaDoc comments.

50. (New) The method of claim 48 wherein:

the external entity can be one of: a database, a legacy system, and a software application.

51. (New) The method of claim 48, further comprising:
specifying at least one callback declaration.
52. (New) The method of claim 48 wherein:
the functionality to proxy object software design includes a wizard that can guide the creation of the proxy object.
53. (New) The method of claim 48 wherein:
the functionality to support software compilation includes at least one function to validate function calls and property settings in source code.
54. (New) The method of claim 48 wherein:
the functionality to support software execution includes at least one function to acquire and release at least one resource and includes the ability to invoke a function on the external entity.
55. (New) The method of claim 48 wherein:
the proxy object can inherit from a proxy object interface declaration at least one of: a function, a property and a callback.
56. (New) The method of claim 48 wherein:
the proxy object definition includes a declaration of the first function.

57. (New) The method of claim 48 wherein:

the proxy object can inherit from a proxy object interface declaration at least one of: a function, a property and a callback.

58. (New) A system for creating a proxy object capable of communication with an external entity, comprising:

a proxy object definition for the proxy object wherein the proxy object definition specifies the properties of the proxy object through the use of an extensible source code annotation system and defines a first function for communicating with the external entity;

at least one implementation class for the proxy object definition, wherein the at least one implementation class includes functionality to support one of: proxy object design, software compilation and software execution and does not implement the first function;

a compiler capable of compiling the proxy object definition and the at least one implementation class using steps:

automatically recognizing information supplied in annotations; and

using the recognized information supplied in annotations to extend proxies.

59. (New) The system of claim 58, further comprising:

the compiler is capable of generating metadata that can be used by the proxy object at runtime to invoke the first function.

60. (New) The system of claim 58, further comprising:

at least one callback declaration.

61. (New) The system of claim 58 wherein:

the functionality to proxy object software design includes a wizard that can guide the creation of the proxy object.

62. (New) The system of claim 58 wherein:

the functionality to support software compilation includes at least one function to validate function calls and property settings in source code.

63. (New) The system of claim 58 wherein:

the functionality to support software execution includes at least one function to acquire and release at least one resource and includes the ability to invoke a function on the external entity.

64. (New) The system of claim 58 wherein:

the external entity can be one of: a database, a legacy system, and a software application.

65. (New) The system of claim 58 wherein:

the proxy object can inherit from a proxy object interface declaration at least one of: a function, a property and a callback.

66. (New) The system of claim 58 wherein:

the proxy object definition includes a declaration of the first function.

67. (New) The system of claim 58 wherein:

the extensible source code annotation system is special JavaDoc comments.

68. (New) A method for creating a proxy object capable of communication with an external entity, comprising:

using a proxy object definition for the proxy object, wherein the proxy object definition specifies the properties of the proxy object through the use of an extensible source code annotation system and defines a first function for communicating with the external entity; and

using at least one implementation class for the proxy object definition, wherein the at least one implementation class does not implement the first function and includes functionality to support one of: proxy object design, software compilation and software execution;

69. (New) The method of claim 68, further including compiling the proxy object definition and/or the at least one implementation class, which compiling step comprises:

automatically recognizing information supplied in annotations; and

using the recognized information supplied in annotations to extend proxies.